

# ACT-828D Wideband Dual-Channel Digital Receiver

## Key Features

- The ACT-828 is an EIA standard 1U dual channel rack-mountable receiver with metal chassis.
- A full-color VFD (vacuum fluorescent display) provides clear viewing of all parameters. All controls are intuitive and easily accessible, allowing for quick and easy system setup via a single rotary control.
- Enhanced RF circuitry improves anti-interference characteristics and system compatibility with 64 MHz wide bandwidth allows more interference-free channels to be selected
- New digital diversity receiving technology eliminates signal dropout and enhances receiving range.
- Full-Range sound quality won't be changed by the strength of RF signals or operation distance.
- Digitally-processed RF circuitry and DigitnamicPlus™ technology eliminates compander noise, assuring a wireless sound quality that easily rivals cable transmission.
- Improved proprietary Audio A/D Converter provides a true dynamic range of 115 dBA, T.H.D. < 0.03% at 1 kHz with < 2.9 ms latency
- AES3id Digital Audio Interface facilitates a direct connection to digital mixing consoles and transmits signal without distortion, ensuring a stable S/N ratio which will not deteriorate in long distance transmission.
- Proprietary 256-bit encryption, provides secure audio transmission, preventing unauthorized listening.
- 10 built-in SmartEQ™ presets and user-defined microphone capsule equalization allows faithful sound reproduction to suit artists' preferences.
- 10 built-in digital anti-feedback SmartEQ™ presets minimize feedback effectively without sacrificing sound quality.
- Optional MIPRO RCS2.Net software allows real-time network remote-controlling and monitoring of 64 systems.



## Transmitters & Microphones

<b>ACT-80H</b>	Wideband Digital Handheld Transmitter
<b>ACT-80T</b>	Wideband Digital Miniature Bodypack Transmitter
<b>ACT-80HC</b>	Rechargeable Wideband Digital Handheld Transmitter
<b>ACT-80TC</b>	Rechargeable Wideband Digital Miniature Bodypack Transmitter
<b>TA-80</b>	Digital Wireless Plug-on Transmitter

## Accessories

<b>ACT-707SD</b>	Receivers PC Management Software
<b>AD-707a</b>	UHF Wideband 4-Channel Antenna Divider
<b>AD-708</b>	Wideband 4-Channel Auto Gain-Control Antenna Divider
<b>AT-70</b>	Ground Plane Antenna
<b>AT-70W   AT-70Wa</b>	Wideband Transmitting & Receiving Omni-directional Antenna
<b>AT-90W   AT-90Wa</b>	Wideband Transmitting & Receiving Log Antenna
<b>AT-100   AT-100a</b>	Wideband Circularly Polarized Antenna
<b>FB-72</b>	Rack Mount Kit
<b>FBC-71</b>	Rear-to-Front Cables

## Technical Specifications

Chassis / Channel	EIA Standard 19" 1U, Dual
Frequency Range	UHF 480 – 960 MHz (country dependent)
Bandwidth	64 MHz
Channel Grid	25 kHz
Channel Set-up	Scan & ACT sync
Audio Sampling	24-bit / 44.1 kHz
Audio Frequency Response	20 Hz – 20 kHz (-2 dB)
Encryption	256 bits
Audio Compression	2nd generation DSP inertial coding
Latency	2.9 ms (analog output)
S/N Ratio (analog output)	> 115 dB(A)
T.H.D.	< 0.03% @ 1 kHz
Sensitivity	12 dBµV at S/N ≅ 118 dBA (D)
Image & Spurious Rejection	> 85 dB
Receiving Mode	Digital Diversity
Audio Output	2 × Balanced XLR, 2 × Unbalanced 6.3 mm (1/4 ")
Analog Output Switch	2 × Mic / Line
Digital Audio Interface	AES3id output. 2 × BNC female
Digital Equalizer	10 built-in SmartEQ™ & 10 built-in digital anti-feedback SmartEQ™
Monitor Output	Headphone monitor connector
Dante Interface	Optional
PC Interface	USB or RS-232 interface. Proprietary MIPRO ACT-BUS
Display	Full-color VFD
Battery Meter	Transmitter battery status
Antenna Input	2 × 50Ω TNC Female Connector
Power Supply	Built-in 100 – 240V AC switching power
Dimensions (W × H × D)	420 × 44 × 245 mm / 16.5 × 1.7 × 9.6 "
Weight	Approx. 2.2 kg / 4.8 lbs
Operating Temperature	-10 – +60°C



## MIPRO Electronics Co., Ltd

Headquarters: 814 Pei-kang Road, Chiayi, 60096, Taiwan  
 Tel: +886.5.238.0809 | Fax: +886.5.238.0803  
 www.mipro.com.tw | mipro@mipro.com.tw